

[illegible]

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~~conversion means~~ for converting first image
compression information inputted to said image
information conversion apparatus into second image
compression information to be outputted from said image
information conversion apparatus; each of the first image
compression information and the second image compression
information including at least intra-image coded pictures
and inter-image predictive coded pictures; ~~and~~ ~~compressing~~

scene change detection means operable when said conversion means calculates, based on a variable representative of a complexity of a screen for each frame of the inputted first image compression information, a target code amount for each frame of the second image compression information to be outputted for detecting, prior to conversion of an intra-image coded picture of the first image compression information into an inter-image predictive coded picture of the second image compression information, whether or not a scene change is included in a frame of the intra-image coded picture to be converted.

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each frame.

13. An image information conversion apparatus according to claim 12, wherein said scene change detection means subtracts, from the average value of the DC component among the predetermined coding units of the intra-image coded picture, the average value of the DC component among the predetermined coding units of the immediately preceding intra-image coded picture and determines that a scene change is included when the absolute value of the difference obtained by the subtraction is higher than a threshold value determined in advance.

14. An image information conversion apparatus according to claim 12, wherein the average value of the DC component among the predetermined coding units of the intra-image coded picture includes an average value of the DC component at least of a brightness signal component among the predetermined coding units.

15. An image information conversion apparatus according to claim 14, wherein the average value of the DC component among the predetermined coding units of the intra-image coded picture includes an average value of the DC component of a brightness signal component among the predetermined coding units and an average value of

inter-image predictive coded picture is limited.

18. An image information conversion method according to claim 17, wherein the product of a code amount allocated to each frame and an average quantization scale of the first image compression information is used as the variable representative of the complexity of the screen for the frame to detect whether or not a scene change is included in the frame.

19. An image information conversion method according to claim 18, wherein the variable representative of the complexity of the screen of the immediately preceding intra-image coded picture is subtracted from the variable representative of the complexity of the screen of the intra-image coded picture of the inputted first image compression information, and it is determined that a scene change is included when the absolute value of the difference obtained by the subtraction is higher than a threshold value determined in advance.

20. An image information conversion method according to claim 18, wherein the code amount allocated to each frame of the inputted first image compression information is an entire code amount allocated to the frame.

21. An image information conversion method according to claim 18, wherein the code amount allocated to each frame of the inputted first image compression information includes a code amount at least of a brightness signal component.

22. An image information conversion method according to claim 21, wherein the code amount allocated to each frame of the inputted first image compression information includes a code amount regarding a brightness signal component and a code amount regarding a color difference signal component.

23. An image information conversion method according to claim 17, wherein it is detected whether or not a scene change is included in the frame to be converted using an average value among pixel values of each frame.

24. An image information conversion method according to claim 23, wherein the average value among the pixels of the immediately preceding intra-image coded picture is subtracted from the average value among the pixels of the intra-image coded picture, and it is determined that a scene change is included when the absolute value of the difference obtained by the subtraction is higher than a threshold value determined

in advance.

25. An image information conversion method according to claim 23, wherein the average value of the intra-image coded picture among the pixels includes an average value at least of a brightness signal component among the pixels.

26. An image information conversion method according to claim 25, wherein the average value of pixels of the intra-image coded picture includes an average value of the brightness signal component among the pixels and an average value of a color difference signal component among the pixels.

27. An image information conversion method according to claim 17, wherein it is detected whether or not a scene change is included in the frame to be converted using an average value of a DC component among predetermined coding units included in each frame.

28. An image information conversion method according to claim 27, wherein the average value of the DC component among the predetermined coding units of the immediately preceding intra-image coded picture is subtracted from the average value of the DC component among the predetermined coding units of the intra-image coded picture, and it is determined that a scene change

is included when the absolute value of the difference obtained by the subtraction is higher than a threshold value determined in advance.

29. An image information conversion method according to claim 27, wherein the average value of the DC component among the predetermined coding units of the intra-image coded picture includes an average value of the DC component at least of a brightness signal component among the predetermined coding units.

30. An image information conversion method according to claim 29, wherein the average value of the DC component among the predetermined coding units of the intra-image coded picture includes an average value of the DC component of a brightness signal component among the predetermined coding units and an average value of the DC component of a color difference signal component among the predetermined coding units